Cornell University

ANNOUNCEMENTS

Officer Education



1965-66



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The Departments of Military Science, Naval Science, and Aerospace Studies (ROTC)

Academic Calendar

	1965-66	1966–67
Freshman Orientation	S, Sept. 18	S, Sept. 17
Registration, new students	M, Sept. 20	M, Sept. 19
Registration, old students	T, Sept. 21	T, Sept. 20
Instruction begins, 1 p.m.	W, Sept. 22	W, Sept. 21
Midterm grades due	W, Nov. 10	W, Nov. 9
Thanksgiving recess:		
Instruction suspended, 12:50 p.m.	W, Nov. 24	W, Nov. 23
Instruction resumed, 8 a.m.	M, Nov. 29	M, Nov. 28
Christmas recess:		
Instruction suspended, 10 p.m.	S, Dec. 18	W, Dec. 21
(12:50 p.m. in 1965)		
Instruction resumed, 8 a.m.	M, Jan. 3	Th, Jan. 5
First-term instruction ends	S, Jan. 22	S, Jan. 21
Registration, old students	M, Jan. 24	M, Jan. 23
Examinations begin	T, Jan. 25	T, Jan. 24
Examinations end	W, Feb. 2	W, Feb. 1
Midyear recess	Th, Feb. 3	Th, Feb. 2
Midyear recess	F, Feb. 4	F, Feb. 3
Registration, new students	S, Feb. 5	S, Feb. 4
Second term instruction begins, 8 a.m.	M, Feb. 7	M, Feb. 6
Midterm grades due	S, Mar. 26	S, Mar. 25
Spring recess:		
Instruction suspended, 12:50 p.m.	S, Mar. 26	S, Mar. 25
Instruction resumed, 8 a.m.	M, Apr. 4	M, Apr. 3
Second-term instruction ends, 12:50 p.m.	S, May 28	S, May 27
Final examinations begin	M, May 30	M, May 29
Final examinations end	T, June 7	T, June 6
Commencement Day	M, June 13	M, June 12

The dates shown in the Academic Calendar are tentative.

CORNELL UNIVERSITY ANNOUNCEMENTS

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Cornell President Perkins congratulates the three senior members of the Cornell Brigade: Midshipman Lt. Comdr. Pearson, Cadet Colonel Baum, and Cadet Colonel Ball. The Cornell Brigade is a tri-service cadet organization whose chief function is the over-all coordination and planning of the joint activities of the three service units.

OFFICER EDUCATION AT CORNELL

Through the years Cornell alumni have given outstanding—and oftentimes heroic—service in the military services of their nation. Since its founding, Cornell has provided instruction in military science to its students as a public service responsibility.

At present, this tradition of University cooperation in developing trained reserve officers embraces a voluntary program open to all students. In this way, Cornell, in cooperation with the military services, makes it possible for college students to prepare themselves to serve their country in positions of leadership while completing their college education.

Cornell is fortunate in having ROTC programs offered by the three military departments: the Army, the Navy, and the Air Force. These programs are alike in that each leads to a commission in the armed forces upon graduation.

Incoming students should give thoughtful consideration to the various offerings of this broad military program at Cornell, so that each can make a decision about his own future appropriate to his responsibility to himself and to the nation.

JAMES A. PERKINS President Cornell University

FACULTY

James A. Perkins, A.B., Ph.D., President of the University Royse P. Murphy, Ph.D., Dean of the Faculty

DEPARTMENT OF MILITARY SCIENCE

Colonel Martin J. Waters, U.S. Army, Professor of Military Science, and Commanding Officer of the Army ROTC Unit

ASSOCIATE PROFESSOR

Lieutenant Colonel Charles A. Thacker, Artillery, U.S. Army

ASSISTANT PROFESSORS

Major Lynn M. McCrum, Corps of Engineers, U.S. Army Captain Bruce E. Green, Medical Service Corps, U.S. Army Captain John P. Matthews, Armor, U.S. Army Captain Francis B. Kish, Quartermaster Corps, U.S. Army

DEPARTMENT OF NAVAL SCIENCE

Colonel William P. Dukes, U.S. Marine Corps, Professor of Naval Science, and Commanding Officer of the Naval ROTC Unit

ASSOCIATE PROFESSOR

Commander Basil D. Slaymaker, U.S. Navy

ASSISTANT PROFESSORS

Major David B. Hayes, U.S. Marine Corps Lieutenant Commander Jerome R. Pilon, U.S. Navy Lieutenant Ernest V. Haag, U.S. Navy Lieutenant James W. Heegeman, U.S. Navy Lieutenant (junior grade) Robert M. Johnstone, Jr., U.S. Navy

DEPARTMENT OF AEROSPACE STUDIES (ROTC)

Lieutenant Colonel Richard D. Sullivan, U.S. Air Force, Professor of Aerospace Studies (ROTC) and Commander, Air Force ROTC Detachment 520

ASSOCIATE PROFESSOR

Captain Richard O. Montgomery, U.S. Air Force

ASSISTANT PROFESSOR

Captain Alexander H. Newlands, U.S. Air Force

HISTORY OF THE ROTC AT CORNELL

Cornell University, established as a land grant institution in 1865, has offered courses in the military arts since 1868, and military instruction has been an integral part of the Cornell experience, with few exceptions, since that early date.

Prior to World War I, military training was administered by an officer detailed by the War Department as a professor of military science and tactics, assisted by one or more noncommissioned officers of the regular Army. For some time subsequent to 1868, cadets lived under military conditions. The uniform was the accepted dress, and cadets moving in formation were a common sight.

The following is quoted from a military order of 1868 with respect to University policy.

It is granted that this great University was not founded for the purpose of educating soldiers, but it can imbue citizens with all that is good in soldiers and fit them to be soldiers in time of need. Who is to say that its results will not be commensurate with its high purpose, and its influence as beneficent, as the efforts to intend them are self-sacrificing and earnest?

History has shown that this high purpose has been and is being fulfilled. Andrew Dickson White, Cornell's first President, praised the results of the military training program in his autobiography. Cornellians served with distinction in World War I as leaders of men in combat and contributed greatly to the national effort. Cornell had more officers in the military service (during World War I) than did any other institution.

Subsequent to World War I, the Reserve Officers' Training Corps was established. During the next two decades, the Corps produced numerous reserve officers who, when called to active duty during World War II, helped provide the national capability to expand the military forces and win the war. General George C. Marshall, Chief of Staff during World War II, stated that "the rapid mobilization and effective leadership provided our armed forces in World War II was made possible by the large number of officers trained in the ROTC programs." Without this capable and trained reserve, it is probable that the war would have been much longer and more costly. Cornellians contributed greatly in this effort, many of them reaching positions of great responsibility and leadership.

In the post-World War II era, Navy and Air Force training was made available to the student. As a result, many Cornellians served their country as officers during the Korean conflict in all of the military forces. Many Cornellians have chosen to make careers of military service, a number having risen to general officer rank.

In his speech at the Industrial College of the Armed Forces, August 21, 1964, President Johnson said: "The next 20 years will demand more

of America's military men, America's diplomats, and America's political leadership than the last 200 years

"The military career today demands a new order of talent and training and imagination and versatility. Our military men have these qualities and they have them in abundance."

For the officer corps to continue to meet these high standards, Cornell must continue her outstanding contribution.

ROTC PROGRAMS IN BRIEF

Enrollment

ARMY: Freshman year; with approval, students in a five-year program may enter at beginning of sophomore year. Transfer students and sophomores may be selected to enter the advanced program at end of sophomore year.

AIR FORCE: Freshman year; selected students and transfer students may be permitted to enter advanced program at end of sophomore year.

NAVY: Contract program: freshman year. Regular program: freshman year after earlier selection by nation-wide competition.

MARINES: Marine option available at beginning of third year for selected NROTC students.

Physical Requirements

ARMY: Eyes: correctable to minimum of 20/20 in one eye and 20/400 in the other eye. Height: 78" maximum (exceptions considered). Weight according to height. Over-all sound mental and physical condition.

AIR FORCE: Eyes without glasses: 20/20 for pilot candidates; 20/50 for navigators; 20/400 bilaterally for engineers and general service. Height: flying, 64" to 76"; commission, 64" to 80". Weight varies with height and age. Over-all sound physical condition.

NAVY: Eyes: Contract, 20/20 (waivers may be requested up to 20/40 provided eyes will correct to 20/20); Regular, 20/20 without correction. Normal color perception for both programs. Height: 64" to 78". Weight proportional to height. Over-all sound mental and physical condition.

MARINES: Same as Navy.

Cadet or Midshipman Benefits

ARMY: Pay in advanced program: \$40 per month while in program during academic year; \$120 per month while attending summer camp. Uniforms, tests, and supplies are provided by the Army. Officer's uniform, including winter overcoat, issued when entering advanced program.

AIR FORCE: Pay: juniors and seniors, \$40 per month (maximum \$800) while attending the Professional Officer course, plus a summer field training rate of \$120 per month. Necessary uniforms and textbooks are furnished.

NAVY: Pay: Contract, \$40 retainer per month while in advanced program; Regular, \$50 retainer per month plus tuition fees and other charges during the entire program. Active duty pay and traveling expenses received during summer cruise training. Uniforms, books, and supplies furnished by U.S. Navy.

MARINES: Same as Navy.

Class and Laboratory Hours Required Each Week

ARMY: Freshman, 2; sophomore, 3; junior, 2 or 5; senior, 2 or 5. Plus necessary personal preparation time.

AIR FORCE: Freshman, 2; sophomore, 2; junior, 3 or 5; senior, 3 or 5. Plus necessary personal preparation time.

NAVY: Freshman, 5; sophomore, 2 or 5; junior, 5; senior, 5. Plus necessary personal preparation time.

MARINES: Same as Navy.

Basic Program (first two years)

ARMY: Classroom study in military history, Army organization, map and compass reading, intelligence systems, and squad tactics. Leadership laboratory instruction in the basics of marching and unit formations (conducted by advanced cadets). Field training in compass reading and terrain analysis, or basic program requirement can be met by attending six-week summer camp between the sophomore and junior years.

AIR FORCE: Classroom study of world military systems one hour a week. Leadership laboratory instruction in the fundamentals of military formations and ceremonies one hour a week each semester. One approved University course, which may be applied toward degree requirements, must also be taken each year.

NAVY: Classroom study in naval orientation, sea power, and naval weapons. Leadership laboratory instruction in the basics of marching and military bearing. During the second year, one course other than naval science may be substituted for one term of military instruction.

MARINES: Same as Navy.

Advanced Program

ARMY: Classroom study in advanced tactics, troop movement, combat intelligence, Army supply and organization. Field training in compass reading and small-unit tactics. Leadership laboratory instruction in preparation for summer training (summer of third year) and for leadership positions (fourth year); includes unit drill, military courtesy, and command voice training; one hour of class study per week on military instruction, law, and civil affairs. Summer training for six weeks at end of third year; held during beginning of summer at near-by Army training center. Major physical examination given. Pay rate of \$120 per month. One accepted course will be substituted for military science in each academic year of advanced program. Branch selection made during fall term of fourth year. Army aviation selectees begin flight training.

AIR FORCE: Classroom: junior year, three hours a week in growth and development of aerospace power; senior year, three hours a week in leadership, administration, military justice, and other officer responsibilities. Leadership

laboratory: two hours each week, junior and senior years. Instruction in applied leadership and preparation for field training. Flying program: flight instruction during the senior year for all cadets accepted for pilot training. Includes ground school and $36\frac{1}{2}$ hours of flying at Air Force expense.

NAVY: Classroom study in navigation, naval operations, engineering, and leadership. Leadership laboratory instruction in unit formations and drill. Summer cruises: Contract, six-week practice cruise at end of third year; Regular, three summer cruises of four to six weeks each. Flight indoctrination program provided during senior year for qualified midshipmen interested in naval aviation.

MARINES: Classroom study to provide the student with a broad knowledge of the history of warfare, an understanding of the theoretical principles of modern strategy and tactics, a familiarization with current amphibious doctrine, and a working knowledge of the basic tenets of military leadership. Summer cruises: Contract and Regular, six-week summer training conducted at Marine Corps School, Quantico, Virginia. Flight indoctrination program provided during senior year for qualified Marine option students interested in Marine Corps aviation.

Commissioning Requirements

ARMY: Successful completion of Army advanced program and award of an undergraduate degree at Cornell. Commissioned rank is Second Lieutenant.

AIR FORCE: Successful completion of the Air Force Professional Officer Course and the award of an undergraduate degree at Cornell. Commissioned rank is Second Lieutenant, Air Force Reserve.

NAVY: Successful completion of NROTC (Regular, Contract, or Marine Corps option) program and undergraduate study at Cornell. Commissioned ranks: Contract: Ensign, Naval Reserve; or Second Lieutenant, Marine Corps Reserve. Regular: Ensign, Navy; or Second Lieutenant, Marine Corps.

MARINES: See Navy.

Service Obligations after Graduation

ARMY: Two years' active duty with the Army Reserve in the branch of the student's choice; three years' Ready Reserve training; and one year of Standby Reserve training; OR three years' active duty with the Regular Army in the branch of the student's choice; one year of Ready Reserve training; two years of Standby Reserve training.

AIR FORCE: Four years' active duty for engineers or general category graduates. Five years' active duty for pilots or navigator trainees.

NAVY: Contract: three years' active duty in the Naval Reserve or Marine Corps Reserve; three years' Ready Reserve training. Regular: four years' minimum active duty in Navy or Marine Corps; two-years' Ready Reserve training.

MARINES: See Navy.

Advanced Study

ARMY: Deferments may be granted to individuals who desire to attend graduate school after commissioning; length of active service time is not extended. Advanced study for qualified officers may be pursued at government expense after initial tour of duty.

AIR FORCE: Newly commissioned officers may delay reporting for active duty while undertaking graduate study at own expense, Weather Officer candidates may receive one postgraduate year of college at government expense with no additional service obligation.

NAVY: Students may request permission to pursue advanced studies. Length of active duty will not be affected.

MARINES: Upon graduation and commissioning, newly appointed officers will be assigned to the basic course, Marine Corps School, Quantico, Virginia. or to flight training depending upon their status at the time. Selected officers will be assigned to postgraduate courses to prepare them for later assignments to specific billets requiring an advanced level of education.

THE UNITED STATES ARMY ROTC PROGRAM

The complexity of the missile-armed, mechanized, and airborne Army has generated a need for highly educated officer leaders. The Cornell Army Reserve Officers Training Corps has provided officers of high caliber to the United tates Army since 1921. In 1955 the general military science curriculum was established. It leads to commissions as Second Lieutenants in the Army Reserve and the Regular Army upon graduation from Cornell.

THE COURSE OF INSTRUCTION

FOUR-YEAR OPTION

The course in military science is a four-year, elective course, which is pursued concurrently with the student's regular collegiate studies; thus the student is able to earn a commission as an officer at the time he receives his academic degree. Uniforms, texts, equipment, and instruction are provided at no charge to the student.

The course is divided into two parts: the basic course, which is covered in freshman and sophomore years, and the advanced course taken during junior and senior years. In the basic course the Army ROTC cadet learns the military subjects that are the foundation of an officer's military knowledge, such as American military history, military policy and problems of the United States, evolution of the military art, individual weapons and markmanship, map and aerial photograph reading, and individual and small unit tactics. In addition, he studies the organization of the ROTC and the Army, and the U.S. Army and national security, subjects which give the student an insight into the problems of national defense in the atomic age.

During the basic course, the freshman cadet studies military science subjects for one hour a week in a morning class while the sophomore devotes two hours of classroom time to these subjects. All basic cadets spend an additional hour in an afternoon leadership laboratory developing skill in the execution of military drill and at the same time gain an appreciation of the problems

of leadership involved in handling groups of men.

Cadets who are proficient in their military studies and who have shown qualities of military leadership may continue to the advanced course. They are required to sign a contract to complete the program and accept a commission if tendered. Additionally, the advanced student is enlisted in the Reserve Forces and receives credit toward his reserve requirement under the Reserve Forces Act. Students receive \$40 a month retainer pay during the period of their junior and senior years. While at summer camp, between the junior and senior year, the cadet is furnished uniforms, medical attention, food, lodging, transportation to and from camp, and pay at the rate of \$120 a month. The total payment a cadet receives during the advanced course is approximately \$950. When he goes on active duty as an officer, the graduate receives an allowance of \$300 for uniforms and equipment.

In the junior year, studies in the advanced course include, during one semester, three hours a week of classroom discussions and practical work in leadership, military teaching methods, and small unit tactics. In the other



Army cadet color guard prepares to pass in review.



In summer camp Army ROTC cadets participate in demonstrations that utilize the newest Army equipment.

semester the cadet chooses a University course of three credit hours from one of the following four broad fields: effective communication, general psychology, political development or political institutions, and science comprehension, which will be of value to him as a commissioned officer and as an educated man. Throughout the year the cadet devotes two hours, one afternoon a week, to practical work in leadership, drill, and the exercise of command through instructing and commanding his fellow cadets. This instruction is progressive, and promotions in the cadet battalion are made on the basis of demonstrated performance as leaders. Each cadet is given opportunities to develop his leadership through rotation of command positions.

At the six-week summer camp, theory learned on the campus is put into practice. The camp for Cornell ROTC cadets is held at Fort Devens, Massachusetts. The reservation provides ample firing ranges and maneuver areas for practical work with all kinds of weapons and for small unit tactical exercises. Moreover, the cadets witness various demonstrations by the regular troops of all arms and services. In addition to becoming familiar with military life in camp and in the field, the cadets become acquainted with ROTC students from colleges located thoughout New England and New York State, who are attending the ROTC camp. Athletic, social, and recreational facilities of all kinds, including dances, are available to the cadets at minimal or no cost.

Upon their return to the campus, seniors become officers in the cadet battalion and, with the background of their summer camp experience, plan and conduct drills, ceremonies, and military exercises. As in the junior year, cadets attend ROTC classes three mornings a week during one semester, studying battalion operations, command and staff relationships, military justice, Army administration, logistics, and the role of the United States in world affairs. During the other semester, the senior takes a University course from one of the four general areas mentioned in the description of the junior year curriculum.

Graduates are commissioned in one of the branches of the Army and are ordered to active duty. Their first duty assignment is attendance at a basic officer's school for several months, where the new officer learns the techniques of his assigned branch of the Army. Students desiring graduate work may delay their active duty call date up to 3 years.

TWO-YEAR OPTION

The Department of Military Science now offers Cornell men an opportunity to be commissioned as Second Lieutenants after only two years of on-campus ROTC training. The traditional ROTC program requires four years, but the new ROTC Vitalization Act of 1964 makes it possible for the college students to meet the requirements for a commission in just two years. A student may take advantage of this opportunity by attending a six-week basic summer camp after his sophomore year and completing the advanced course in his junior and senior years. The advanced course is the same as that described for the four-year option. Many Cornell fields of study require summer credits; therefore, students are cautioned to check their curricula with the Professor of Military Science at the beginning of the freshman year prior to electing this option. Application for the two-year option must be made to the Department of Military Science prior to March 15 of the sophomore year.

SCHOLARSHIPS

The Army subsidizes a scholarship program for young men motivated toward an Army career. Further information should be obtained from the high school career counselor.

GENERAL REQUIREMENTS

BASIC COURSE (MS I AND II)

To be enrolled in the basic course the student must:

Be a citizen of the United States.

Be physically qualified under standards prescribed.

Be not less than 14 years of age at enrollment.

Be regularly enrolled in the institution.

Veterans of the Armed Forces of the United States may receive the following credit, subject to the approval of the professor of military science:

One year's active duty—credit for basic course.

Six months' active duty or active duty for training—credit for MS I.

Students entering college with ROTC credit from secondary or military schools (Junior Division ROTC) will receive appropriate credit for military instruction completed.

Foreign students and those not fully qualified may elect the course at no expense to the government, subject to approval of the professor of military science.

ADVANCED COURSE (MS III AND MS IV)

Cadets electing the advanced course must:

Have successfully completed the two-year basic course or the two-year option summer camp.

Be able to qualify for appointment as a Second Lieutenant prior to reaching 28 years of age.

Successfully pass such survey, physical, and screening tests as may be prescribed.

Be selected by the professor of military science.

Have at least two years' academic work remaining at this institution or be entitled to curtailment of the advanced course under existing regulations. Execute a written contract with the United States Government to complete the advanced course and to accept a commission as an officer, if tendered. While pursuing the advanced course students are deferred from induction. Enlist in the Reserve Corps.

UNITED STATES ARMY RESERVE

Upon successful completion of the Army ROTC course, the student, unless commissioned in the regular Army, is appointed a Second Lieutenant, United States Army Reserve, in one of the branches of the Army, such as Infantry, Artillery, Armor, Corps of Engineers, Ordnance Corps, Quartermaster Corps, and others. Although the needs of the Army must govern, he is allowed to express his preference for the branch of the Army in which he wishes to serve.

ROTC graduates commissioned in the United States Army Reserve will be ordered to active duty within one calendar year of graduation unless delayed for the purpose of pursuing graduate studies. During the period 1963–1964 all ROTC graduates were ordered to two-year tours of active duty for

training. Assignments to tours of active duty and dates of call thereto are governed by the needs of the Army.

ROTC FLIGHT TRAINING PROGRAM

The ROTC flight training program was established as a college program to train future Army aviators. The new program affords an opportunity for selected senior cadets to become proficient in the fundamentals of flying and to qualify for a Federal Aviation Agency private pilot's license.

Each cadet will receive 35 hours of ground instruction and 35 hours of flying instruction. After successful completion of his Cornell training program, each cadet will go on active duty as an Army Second Lieutenant and will attend the Army Aviation Training Course at Fort Rucker, Alabama.

Upon graduation from the Army's flying school, he will be a qualified pilot of Army aircraft or helicopters, a rapidly expanding form of air transport.

Branch recommendations for cadets who are accepted for ROTC flight training must be in one of the following: Armor, Artillery, Corps of Engineers, Infantry, Medical Service Corps, Signal Corps, or Transportation Corps.

The training received in the flight program costs the government over \$500. The cadet pays nothing for this instruction.

THE CADET CORPS

Army ROTC cadets are organized into a cadet battalion for drills and ceremonies. The battalion is commanded by a Cadet Colonel. The battalion, with other Cornell military organizations, takes part in observances of Veterans' Day, Armed Forces Day, and other national and local occasions.

Prizes and awards are presented at the annual Presidential Review to cadets who have demonstrated outstanding ability in military theory or leadership.

DISTINGUISHED MILITARY STUDENTS

A number of appointments as Second Lieutenants in the Regular Army are tendered annually to ROTC graduates who have demonstrated above-average academic achievement and outstanding military qualities. All members of the Army ROTC unit are eligible to compete for these appointments. Distinguished military graduates who accept a Regular Army commission enter the Army upon the same basis as graduates of the United States Military Academy at West Point.

CURRICULUM AND SCHEDULE OF CLASSES

11. BASIC ARMY ROTC

Fall term. Credit 1 hour. M 9, 11; W 8, 10, 12 and 3; Th 3, and leadership laboratory W or Th 2. Examinations to be announced.

One hour a week of classroom discussion and practical exercises, where appropriate, covering the organization of the Army and ROTC and individual weapons and markmanship; plus one hour in a leadership laboratory covering the school of the soldier and exercise of command.

12. BASIC ARMY ROTC

Spring term. Credit 1 hour. M 9; also Wed. 11, 3; or Th 12, 3 and leadership laboratory, W or Th 2. Examinations to be announced.

One hour a week of classroom studies on the United States Army and national security; plus one hour in a leadership laboratory covering the school of the soldier and exercise of command.

21. BASIC ARMY ROTC

Fall term. Credit 2 hours. M W 9 or T Th 8, 10, or 12; and leadership laboratory, W or Th 2. Examinations to be announced.

Two hours a week of classroom discussion and case studies in American military history; plus one hour a week in a leadership laboratory covering the school of the soldier and exercise of command.

22. BASIC ARMY ROTC

Spring term. Credit 2 hours, M W 11, or T Th 8, 10, or 12; and leadership laboratory, W or Th 2. Examinations to be announced.

Two hours a week of classroom discussion and practical exercises in map and aerial photograph reading and basic small unit tactics; plus one hour in a leadership laboratory covering the school of the soldier and exercise of command.

30. ADVANCED ARMY ROTC

Spring term only. Credit 3 hours. M W F 8, 10 or 12; or T Th S 9 or 11. The student must also satisfactorily complete leadership laboratory courses 30A and 30B. See academic subject requirements below.

Three hours a week of classroom discussion and practical work in principles of leadership, military teaching, and branches of the Army.

30A. ADVANCED ARMY ROTC, LEADERSHIP LABORATORY

Fall term only. W or Th 2 and 3.

One hour a week of classroom discussions and practical work in organization of the Army and communications; plus an additional hour on school of the soldier and exercise of command.

30B. ADVANCED ARMY ROTC, LEADERSHIP LABORATORY

Spring term only. W Th 2 and 3.

One hour a week of classroom discussion and practical work in infantry platoon and company tactics; plus an additional hour on school of the soldier and exercise of command.

40. ADVANCED ARMY ROTC

Fall term only. Credit 3 hours. M W F 8, 10 or 12; or T Th S 9 or 11. The student must also satisfactorily complete leadership laboratory Courses 40A and 40B. See academic subject requirements below.

Three hours a week of classroom discussion and practical work in battle group operations, atomic weapons, command and staff relationships, estimate of the situation, and military justice.

40A. ADVANCED ARMY ROTC, LEADERSHIP LABORATORY

Fall term only. W or Th 2 and 3.

One hour a week of classroom discussion and practical work in Army administration; plus an additional hour on the school of the soldier and exercise of command.

40B. ADVANCED ARMY ROTC, LEADERSHIP LABORATORY

Spring term only. W or Th 2 and 3.

One hour a week of classroom discussion and practical work on the role of the United States in world affairs; plus an additional hour on the school of the soldier and exercise of command.

THE UNITED STATES NAVAL ROTC PROGRAM

The mission of the Naval ROTC is to provide, by a permanent system of training and instruction in essential naval subjects at civil educational institutions, a source from which qualified officers may be obtained for the Navy and the Marine Corps, and the Naval Reserve and the Marine Corps Reserve.

The Department of Naval Science at Cornell offers a four-year course in Navy and Marine Corps subjects which can be integrated into almost any major field of academic study learning to a baccalaureate degree except the following: medicine, premedical, dentistry, predental, veterinary medicine, preveterinary, theology pretheological, pharmacy, music, and art.

Graduates are required to accept a commission in the Navy or Marine Corps and to report for a period of obligated active service immediately on attainment of the baccalaureate degree. Graduates may request delay from active naval service to pursue graduate study at their own expense, leading to a Master's degree or doctoral degree in engineering, chemistry, physics, mathematics, or some subdivision of those fields.

REGULAR AND CONTRACT PROGRAMS

In order to register for Naval Science courses, the student must enroll in the Naval ROTC Unit (Department of Naval Science) as a Regular NROTC student or as a Contract NROTC student.

Regular NROTC students are selected annually by state selection committees on the basis of a nationwide competitive examination held in December of each year for students entering college the following year. The Regular NROTC program is a NAVY subsidized program for young men motivated to a naval career.

Contract NROTC students are selected on the campus by the Professor of Naval Science, Cornell University. A quota of about 100 contract students will be selected in the freshman orientation period and will be enrolled as civilians by execution of a contract with the Navy. The Contract program is selective. All freshmen interested in the Contract NROTC Program should visit the NROTC headquarters during the orientation period for application and interview.

Contract students receive free naval science textbooks and course materials, uniforms and a retainer of about \$40 per month during the last two years of the program. One summer training cruise of about six weeks' duration following the third year of naval science provides an opportunity for sea experience aboard a U.S. Navy warship and probable visits to foreign ports.

GENERAL CURRICULUM

Students enrolled as Contract or Regular NROTC students attend the same classes and receive the same instruction. The curriculum for the first two years is common to both Navy and Marine Corps candidates. During the second year a student may elect the Marine Corps curriculum for the third and fourth years and, if selected, will receive his commission in the Marine Corps. These courses are indicated by the M in the curriculum and Schedule of Classes (301M, 302M, 401M, and 402M).



Receiving line at the Navy Ball.



Summer cruise. Midshipman shooting the sun.

The curriculum requires attendance at three one-hour classes and one two-hour laboratory session each week.

Some of the schools and colleges at Cornell (Architecture, Hotel Administration) give full credit toward a degree for Naval Science courses. All schools and colleges give some credit for Naval Science courses.

REQUIREMENTS

An applicant for the Naval ROTC Program at Cornell must be a male citizen of the United States; he must have reached his seventeenth and not have passed his twenty-first birthday on July 1 of the entering year. If he matriculates in a major field of study requiring five years for a first baccalaureate degree, he must not have passed his twentieth birthday on July 1 of the entering year. Students enrolled in a five-year program will be placed in a leave status with respect to the Department of Naval Science (draft deferment continues) during the third year.

Naval ROTC students must be unmarried until commissioned.

Physical requirements are the same as those of the U.S. Naval Academy at Annapolis, Maryland. A waiver for 20/40 eye sight, correctable to 20/20 with glasses, may be given to highly qualified applicants for the Contract Program. Applicants must have normal color perception.

NROTC FLIGHT INDOCTRINATION PROGRAM

The NROTC Flight Indoctrination Program is available at no cost to senior NROTC students motivated to naval aviation. This selective program affords an opportunity to become proficient in the fundamentals of aviation and to qualify for a private pilot's license through the Federal Aviation Agency.

The program provides 35 hours of ground instruction and 40 hours of flying instruction. Upon commissioning, the graduate is ordered to Naval Aviation Training at Pensacola, Florida.

DUTY ASSIGNMENTS

The student, upon graduation and meeting the physical requirements, will be commissioned as an Ensign, U.S. Navy (Regular students); Ensign, U.S. Naval Reserve (Contract students); Second Lieutenant, U.S. Marine Corps (Regular Marine Corps students); or Second Lieutenant, U.S. Marine Corps Reserve (Contract Marine Corps students).

Graduates commissioned Ensign, U.S. Navy or U.S. Naval Reserve, are ordered to sea duty or shore duty as the needs of the Navy require. Each graduate has an opportunity to request his preferred type of duty upon graduation. These requests are given careful consideration, and every effort is made to assign the newly commissioned officer duty of his preference. Choices of duty include: aviation, submarines, large and small surface-ships, and nuclear power training. Graduate study is available after the initial tour of duty. Graduates commissioned Ensign, U.S. Navy, are required to serve a minimum period of active duty of four years; those commissioned Ensign, U.S. Naval Reserve, are required to serve three years of active duty and three years of inactive duty in the ready reserve.

Graduates commissioned in the U.S. Marine Corps and U.S. Marine Corps Reserve are ordered to a seven months' basic course at Quantico, Virginia.

Upon completion of the Basic Course, each officer has the opportunity to request his preferred type of duty. Active duty requirements for Marine Corps officers commence on compliance with orders to active duty; Second Lieutenants, U.S. Marine Corps, serve a minimum period of four years on active duty, Second Lieutenants, U.S. Marine Corps Reserve, serve three years on active duty and three years in a ready reserve status.

CURRICULUM AND SCHEDULE OF CLASSES

101. SEAPOWER AND ORIENTATION

Fall term. Credit 3 hours. Lecture-recitation, M W F 9 or 11; T Th F 8. Laboratory, W or Th 2-4.

A study of the organization of the Department of Defense, the customs and the traditions of the Navy, and naval leadership; basic seamanship, and the various types of naval forces; introduction to factors contained in the analysis of seapower. Required of all first-term Naval ROTC students.

102. SEAPOWER AND ORIENTATION

Spring term. Credit 3 hours. Lecture-recitation, M W F 9 or 11; T Th F 8, Laboratory, W or Th 2-4.

Continuation of study in the analysis of seapower. A study of seapower's influence upon global history. The future employment of seapower, Basic shiphandling. Required of all second-term Naval ROTC students.

201. NAVAL WEAPONS SYSTEMS

Fall term. Credit 3 hours. Lecture-recitation, M W F 9, or 11; T Th F 8. Laboratory, W or Th 2–4. A study of naval weapons systems. Emphasis is placed on the guided missile, its applications, propulsion, and control. Required of all third term Naval ROTC students.

202. PSYCHOLOGY OR PERSONNEL MANAGEMENT

Spring term. This course may be taken any time before Naval Science 402 is taken, but the fourth-term Naval ROTC student will be required to attend Naval Science Laboratory, W or Th 2-4; T Th F 8. This will be any one of several three-credit-hour courses offered by Cornell and taught by a civilian faculty member, which will prepare the student for Naval Science 402. Choice of the course is subject to agreement between the school or college and the Department of Naval Science.

301. NAVIGATION

Fall term. Credit 3 hours. Lecture-recitation, M W F 9 or 11; T Th F 8. Laboratory, W or Th 2–4.

The theory and technique of celestial and terrestrial navigation, dead reckoning, piloting, and use of navigational instruments. Required of all fifth-term Naval ROTC students except Marine Corps candidates.

301M. EVOLUTION OF THE ART OF WAR

Fall term. Credit 3 hours. Lecture-recitation, M W F 8. Laboratory, W or Th 2-4. The historical development of weapons, tactics, and materials; the classic principles of war illustrated by a study of selected battles and campaigns. Required of all fifth-term Naval ROTC students who are candidates for Marine Corps commissions.

302. NAVAL OPERATIONS

Spring term. Credit 3 hours, Lecture-recitation, M W F 9 or 11; T Th F 8, Lahoratory, W or Th 2-4.

A study of shipboard operations, including maneuvering board, tactical communications and instructions, rules of the nautical road, and the operational importance of weather and fleet communications. Required of all sixth-term Naval ROTC students except Marine Corps candidates.

302M. MODERN BASIC STRATEGY AND TACTICS

Spring term. Credit 3 hours. Lecture-recitation, M W F 8. Laboratory, W or Th 2-4. A survey of modern strategic and tactical principles, using contemporary historical events as illustrative material. Required of all sixth-term Naval ROTC students who are candidates for Marine Corps commissions.

401. NAVAL ENGINEERING

Fall term. Credit 3 hours. Lecture-recitation, M W F 9 or 10; T Th F 8. Laboratory, W or Th $_{2-4}$.

A study of the different types of naval engineering propulsion plants including nuclear plants, principles of thermodynamics and heat transfer. Required of all seventh-term Naval ROTC students except mechanical engineering candidates (who are permitted to substitute certain heat power courses) and Marine Corps candidates.

401M. AMPHIBIOUS WARFARE, PART I

Fall term. Credit 3 hours. Lecture-recitation, M W F 8. Laboratory, W or Th 2-4. A detailed study of the technique and history of amphibious warfare. Required of all seventh-term Naval ROTC students who are candidates for Marine Corps commissions.

402. PRINCIPLES AND PROBLEMS OF NAVAL LEADERSHIP

Spring term. Credit 3 hours. Lecture-recitation, M W F 9; T Th F 8. Laboratory, W or Th $_{2-4}$.

The application of principles of psychology to leadership and the principles of management and management techniques. Required of all eighth-term Naval ROTC students except Marine Corps candidates.

402M. AMPHIBIOUS WARFARE, PART II: LEADERSHIP AND NAVAL JUSTICE

Spring term. Credit 3 hours. Lecture-recitation, M W F 8. Laboratory, W or Th 2-4. A continued study of the techniques of amphibious warfare; the procedures for and the responsibility of an officer in the administration of naval justice; the psychology of leadership. Required of all eighth-term Naval ROTC students who are candidates for Marine Corps commissions.

THE UNITED STATES AIR FORCE ROTC PROGRAM

The mission of the Air Force ROTC is to produce highly qualified officers to satisfy stated Air Force requirements.

The standard course of the Department of Aerospace Studies is a four-year program leading to a commission in the United States Air Force Reserve. Courses of study are designed to prepare the student for his role as an informed citizen and to develop the cadet into a well-rounded Air Force officer.

On successful completion of the General Military Education Program (first four semesters), the student may apply for the Professional Officer Education Program. Acceptance is based on his academic and physical standards and on his general performance during the first two years.

Public Law 88–647, signed by President Johnson, October 13, 1964, authorizes scholarships and retainer pay of \$50 per month for a limited number of cadets in the four-year program. Initially, these scholarships will be offered to cadets currently in the program. Eventually, both incoming freshmen and cadets who have completed part of the program will be able to compete for the scholarships.

THE GENERAL MILITARY EDUCATION PROGRAM

The general military course covers the freshman and sophomore years and includes professional AFROTC subjects and leadership laboratory. The cadet attends AFROTC classes one hour each week and leadership laboratory one hour each week. During the freshman year, the general military course covers an introduction to the responsibilities of the Air Force officer and the role and relationship of military power to present world conditions. This course continues during the sophomore year with a study of world military forces and the political-military issues surrounding their existence. In addition, each year a University course of three hours minimum credit must be selected from the general areas of mathematics, physics, chemistry, economics, foreign languages, or public speaking.

In the leadership laboratory, the cadet gains experience in actual leadership situations and learns the fundamentals of military drill and ceremonies, wearing of the uniform, military courtesy and discipline, and military organization.

Textbooks and uniforms are furnished. A \$5 University registration fee and a \$25 uniform deposit are required.

THE PROFESSIONAL OFFICER EDUCATION PROGRAM

Each cadet accepted into the professional officer course must enlist in the Air Force Reserve. He also signs an agreement to complete the program and accept a commission in the Air Force Reserve, if tendered, upon graduation. While attending classes in the professional officer course, the cadet receives a retainer fee of \$40 per month for a maximum of 20 months (\$800). In addition, all necessary uniforms and books are furnished at no cost to the student.

During the junior year, the cadet attends AFROTC classes three hours each week and studies the nature of war and the past and projected development of aerospace power. In his senior year, the cadet enrolls in a three-hour-



Presentation of the Burns Memorial Trophy.



Advance cadet begins jet orientation during summer training.

per-week AFROTC course in professionalism, leadership, management, and military justice.

The leadership laboratory is conducted for one two-hour period each week for all professional officer course cadets in the four-year program. These cadets plan, organize, and supervise all activities in the Cadet Group, thus participating first-hand in simulated duties, functions, and responsibilities

of Air Force Commanders in realistic leadership situations.

All cadets in the professional officer program are classified in relation to their college educational backgrounds. Types of duty available are:

Category I: Pilot or Navigator.

Category II: Engineering (civil, mechanical, electrical, chemical, etc.) or scientific (chemistry, physics, mathematics, biology, meteorology, etc.).

Category III: Other (administrative, logistical, personnel, man-power, etc.).

A B.S. degree in a branch of engineering or science is required for commissioning in Category II; a college degree in other fields is required for commissioning in Categories I and III.

ACTIVE DUTY

Length of active service required for pilots and navigators is five years; for all others, four years. Service is normally as a Second Lieutenant for one and a half years, as a First Lieutenant for three years, and as a Captain after four and a half years. In most cases, active-duty tours can be postponed temporarily to permit students to obtain advanced degrees.

Those cadets designated as Distinguished Air Force ROTC graduates may receive commissions in the Regular Air Force upon reporting for active duty. Others have an excellent opportunity to compete for a regular commission

during their early years of service.

FIELD TRAINING PROGRAM

The cadet attends a four-week field training unit at an Air Force base, usually close to his home, between the junior and senior years.

The field training unit provides the opportunity to see the Air Force in action. He will visit various offices and agencies that are normally found on an Air Force base, such as those related to engineering, the military police, procurement, supply, food service, and legal. He will also participate in an orientation flight.

Each cadet attending the field training program is furnished uniforms, medical attention, food, lodging, transportation to and from field training, and pay at the rate of \$120 per month.

FLIGHT INSTRUCTION

In the senior year, those cadets enrolled as prospective pilots participate in the Flight Instruction Program, which is provided at no cost to the students. Upon completion of this flying program, involving instruction in light aircraft at a local airport, a cadet may apply for a private pilot license as issued by the Federal Aviation Agency.

DUTY ASSIGNMENTS

Air Force policy has been to assign each new officer to a career field which closely approximates his educational background. Students in the engineering-scientific category may be assigned to practice in their specialty in research and development, communications, aeronautics, astronautics, design and development, the biological sciences, computer design and maintenance, weather, or various other engineering and scientific fields. They will work under the supervision of some of the most highly qualified men in their field and have access to the latest scientific facilities and equipment.

Pilots and navigators, after completion of flying training, are assigned primary duties flying various aircraft types depending upon their desires and the needs of the Air Force. They can look forward to world-wide travel and assignments.

Those officers graduating under the general category can anticipate assignments in man-power management, administration, logistics, police and investigation, intelligence, personnel, transportation, information, and numerous other career fields. They will use their educational backgrounds in positions of great responsibility and be given the opportunity to further develop their managerial and administrative skills.

TWO-YEAR AFROTC PROGRAM

A supplementary two-year program involves a six-week summer field training unit and the academic work of the junior and senior years in the four-year program. Openings in this program depend on ROTC enrollment and projected officer requirements two years ahead. This program was developed primarily for transfer students from non-ROTC colleges and universities but is open to all if vacancies exist. Applications for this program should be made to the Professor of Aerospace Studies (ROTC) not later than the end of the third semester.

CURRICULUM AND SCHEDULE OF CLASSES

GENERAL MILITARY COURSE

AS 1A, AS 1B. WORLD MILITARY SYSTEMS

Throughout two terms, one classroom hour, credit one hour per term. M 9 or 12; T 11 or 12. In addition, Leadership Laboratory W 3 (1 hr.).

An introductory course exploring the causes of the present world conflict, the role and relationship of military power to that conflict, and the responsibility of an Air Force officer. The course begins with a discussion of the factors from which differing political philosophies have evolved. It continues with a tri-dimensional analysis of the three prime political philosophies which have guided segments of society in the twentieth century. This is followed by a discussion of the means that nations develop to pursue their objectives and how they confront each other in the use of these means. Individual military systems, with emphasis upon the United States Department of Defense and the United States Air Force, are treated.

AS 2A, AS 2B. WORLD MILITARY SYSTEMS

Throughout two terms. One classroom hour, credit one hour per term. W 12 or Th 12. In addition, Leadership Laboratory W 3 (t hr.).

A continuation of the study of world military forces and the political-military issues surrounding the existence of these forces. Included are a study of the United

States Army and the United States Navy, their doctrines, missions, and employment concepts; a study of the military forces of NATO, CENTO, SEATO, and their role in free world security; an investigation of the military forces of the USSR, the Soviet Satellite Armies, and the Chinese Communist army; and an analysis of the trends and implications of world military power.

COURSE SUBSTITUTION

Requirements also include two University courses (minimum 3 hours each) selected from the general areas of mathematics, physics, chemistry, economics, modern foreign language, psychology, or public speaking. A substitutional course must be completed during each academic year during which aerospace studies credit is claimed, and the two courses must be from different general areas.

PROFESSIONAL OFFICER COURSES

AS $_3$ A, AS $_3$ B, GROWTH AND DEVELOPMENT OF AEROSPACE POWER

Throughout two terms. Credit three hours. Prerequisites, completion of the General Military Course or the six-week Field Training Unit. M W F 12.

Cadets in the four-year program also attend a two-hour Leadership Laboratory each week. W 2:30,

A survey course about the nature of war; development of air power in the United States; mission and organization of the Defense Department; Air Force concepts, doctrine, and employment; astronautics and space operations; and the future development of aerospace power. Includes study of the United States space programs, vehicles, systems, and problems in space exploration.

AS 4A. LEADERSHIP LABORATORY

Fall term. No credit. Prerequisite, AS 3B. W 2:30.

One two-hour period a week of leadership practice in the Air Force leadership laboratory.

AS 4B. THE PROFESSIONAL OFFICER

Spring term. Credit three hours, Prerequisite, AS 4A, M W F 8 and W 2:30.

Three classroom hours a week plus one two-hour period a week of leadership practice in the Air Force Leadership Laboratory. This will become a two-semester course beginning in the fall, 1966.

A study of professionalism, leadership, and management. Includes study of the meaning of professionalism, professional responsibilities, the military justice system, leadership theory, functions and practices, management principles and functions, problem solving and management tools, practices, and controls.

ROTC EXTRACURRICULAR ACTIVITIES

RIFLE TEAMS

Cornell University has a varsity and a freshman rifle team coached by a member of the Department of Military Science. The varsity participates in about 20 "shoulder to shoulder" matches a year, including the 1966 Ivy League Tournament at Princeton and the National Rifle Association Sectionals Matches.

In addition, the Army and Navy sponsor ROTC rifle teams that compete for national and intercollegiate honors through the medium of postal matches.

The range is located in Barton Hall where weapons, ammunition, and targets are provided.

PERSHING RIFLES

The Pershing Rifles, established in 1894 by General John J. Pershing, is a national honorary military society of 131 companies and 5,000 members. It was organized to provide a fraternal organization for those cadets interested in excelling in military science by attaining a high standard of precision and efficiency. Company B, 8th Regiment at Cornell, has a drill team which competes with other colleges and universities throughout the United States. Membership is selected from ROTC cadets of all three services.

SCABBARD AND BLADE

The National Society of Scabbard and Blade, a tri-service military honorary society, is represented at Cornell by Company C, 1st Regiment. Its purpose is to raise the standard of military education in colleges and universities, to unite the military departments in closer relationships, to encourage and foster the essential qualities of good and efficient officers, and to promote friendship and good-fellowship among all cadet officers. Membership is selected from ROTC cadets of all three services.

ARNOLD AIR SOCIETY

The Arnold Air Society is a national honor society, named for the late General Henry H. (Hap) Arnold of the Air Force. It was organized in order to further the purpose, mission, tradition, and concept of the United States Air Force as a means of national defense, promote American citizenship, create a close and more efficient relationship among the Air Force Reserve Officers' Training Corp cadets. Membership is offered to a limited number of Air Force cadets. The society has over 170 squadrons on campuses of various colleges and universities in the United States and Puerto Rico.

NARMID-MEN'S NAVAL HONORARY SOCIETY

The Narmid Society is an honorary society for members of the NROTC junior and senior classes who have participated in at least one training cruise and stand at the top of their class in aptitude for the service. The purpose of the organization is to increase morale of the NROTC Unit by example and selectivity, to give members a broader view of military service through a social program consisting of informal contact with officers and enlisted personnel, and to pass on experience in such a way as to benefit other midshipmen. A primary mission of Narmid is to serve the NROTC Unit.

SEMPER FIDELIS SOCIETY

(MARINE CORPS HONORARY SOCIETY)

Those eligible for membership in the Semper Fidelis Society are Cornell students enrolled in a program leading to a commission as an officer in the United States Marine Corps.

The objective of this Society is to prepare future officers of the United States Marine Corps for their responsibilities when commissioned. This is accomplished by the receipt and the dissemination of policies, doctrines, and other vital information pertinent to a better understanding of officers' duties; by the stimulation and protection of the high tradition and ideals of the United States Marine Corps; by the promotion of good fellowship, and by the cultivation of social virtues among the members.

ROTC BRIGADE BAND

The ROTC Brigade Band furnishes music for drills, parades, and honor guards. Any cadet who plays a musical instrument is encouraged to try out for the band.

SELECTIVE SERVICE

Male college students between the ages of 18 and 26 must be registered with their Selective Service Boards.

Information about Selective Service may be obtained at the Registrar's Office, 240 Day Hall, Cornell University, Ithaca, New York.

REQUEST FOR FURTHER INFORMATION

Requests for further information regarding admission to the ROTC programs may be made by filling out and mailing the coupon below.

(Cross out all but desired addressee.)

Professor of Military Science Professor of Naval Science Professor of Aerospace Studies (ROTC) Cornell University, Ithaca, New York	
Dear Sir:	
I would like to receive further information about: [check one] The Army ROTC The Naval ROTC The Air Force ROTC	
I understand this request does not commit me in any way.	
Signature	
Name (printed)	
Address	

(Enter specific questions on reverse side.)





CORNELL UNIVERSITY ANNOUNCEMENTS

The Cornell Announcements are designed to give prospective students and others information about the University. The prospective student should have a copy of the General Information Announcement; after consulting that, he may wish to write for one or more of the following Announcements:

New York State College of Agriculture (Four-Year Course), New York State College of Agriculture (Two-Year Course), College of Architecture, College of Arts and Sciences, Department of Asian Studies, School of Education, College of Engineering, New York State College of Home Economics, School of Hotel Administration, New York State School of Industrial and Labor Relations, Officer Education (ROTC), Summer School.

Undergraduate preparation in a recognized college or university is required for admission to the following Cornell divisions, for which Announcements are available:

The Graduate School, Graduate School of Business and Public Administration, Law School, Medical College, Cornell University-New York Hospital School of Nursing, Graduate School of Nutrition, New York State Veterinary College.

Requests for the publications listed above may be addressed to CORNELL UNIVERSITY ANNOUNCEMENTS Edmund Ezra Day Hall, Ithaca, New York 14850